課程概述 Course Description

課程代碼 Course Code	中文課程名稱 Course Name(Chinese)	英文課程名稱 Course Name(Chinese)	總學分數 Credits	總時數 Hours	冊別 Hours
03276	資料結構	Data Structure	3	3	1

中文概述 Chinese Description	瞭解程式語言所常用之各種資結構，1.抽象資料類別及運算複雜度之概念，2.靜態結構及其儲存法，3.遞迴、堆疊、前序、中序、後序運算式，4.佇列，5.串列、鏈結串列，6.樹、二元樹、平衡樹、堆積，7.圖形，8.排序，9.搜尋、雜湊。
英文概述 English Description	This course is mainly aimed at introducing the data structures commonly used in programming languages, including: (1) the concept of ADT (abstract data type) and computational complexity, (2) static structures and their storage representations , (3) recursion, stacks, and prefix, infix, and posfix expressions, (4) queues, (5) lists and linked lists, (6) trees, binary trees, height balanced trees, and heaps, (7) graphs, (8) soring, and (9) searching and hashing.